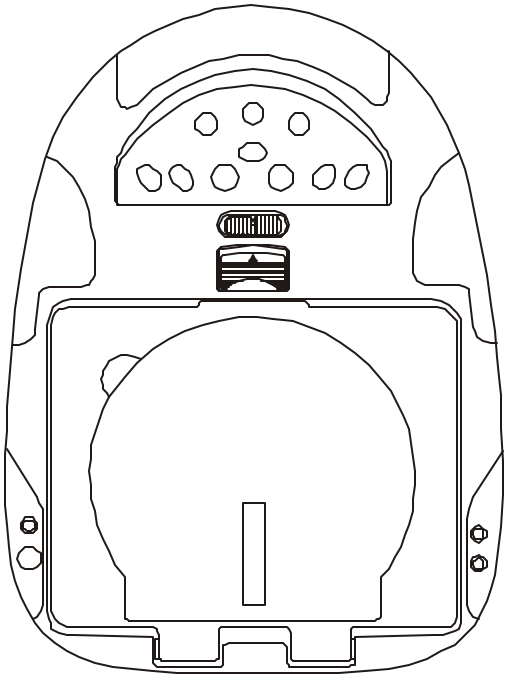
AUDIOVOX®
ELECTRONICS CORP.

VOD701 Drop Down Video Monitor with DVD

VOD702 Drop Down TV/Video Monitor with DVD



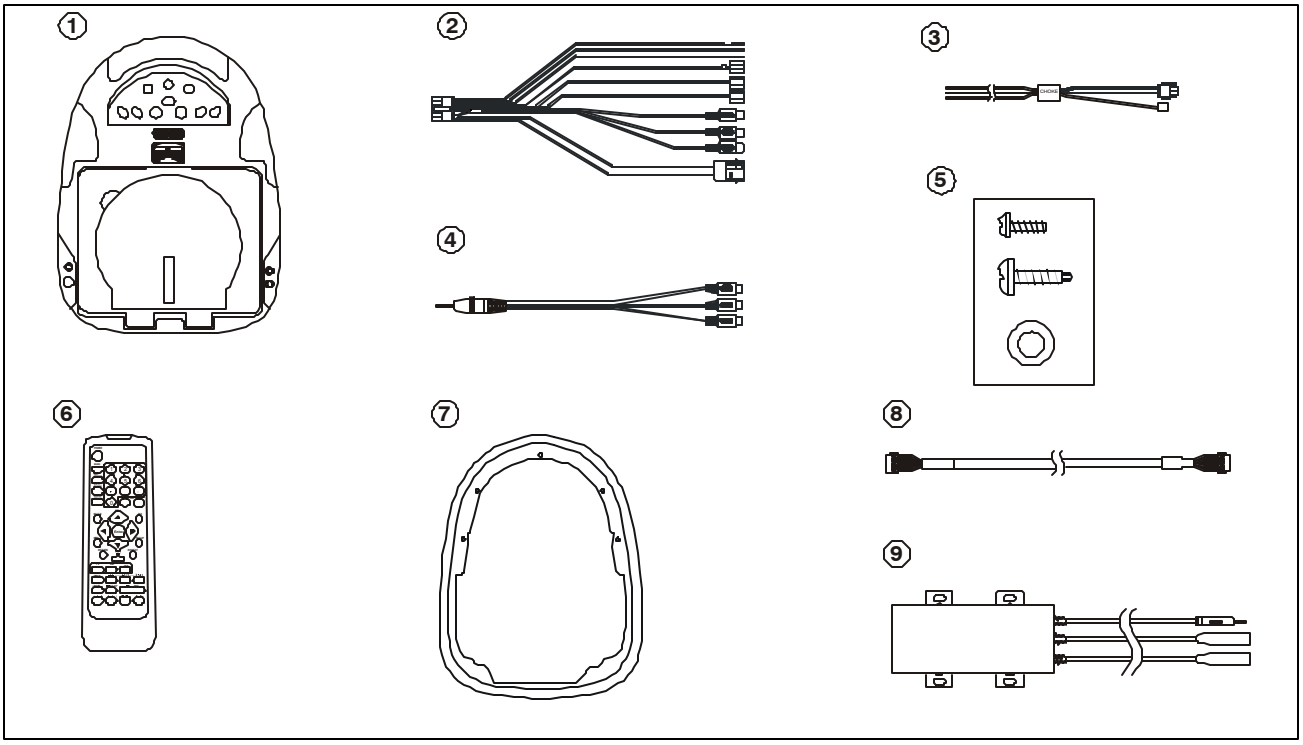
Installation Guide

Important Notice

It is unlawful in most jurisdictions for a person to drive a motor vehicle which is equipped with a television viewer or screen that is located in the motor vehicle at any point forward of the back of the driver's seat, or that is visible directly or indirectly to the operator of the motor vehicle.

MATERIALS INCLUDED IN THIS PACKAGE:

1) VOD701 (136D3428) Video Monitor with DVD (1pc) / VOD702 (136D3429) TV/Video Monitor with DVD (1 pc)
2) 12 Pin Power / Signal harness (P/N 112B2821) (1 pc)
3) 3 Pin Power Wire Harness with choke (P/ N 112B3274) (1 pc)
4) Aux-In pigtail (112B3227
5) Hardware Package
   - #4 x 1/4" Screws (5 pcs)
   - #8 x 5/8" Self Drilling Screws (4 pcs)
   - #8 Washers (4 pcs)
6) Remote Control (P/N 136B3427) (1pc)
7) Mini Console (P/N 102C3916) (1pc)
8) 14 Pin FMM Cable (P/N 112B3273) (1pc)
9) FM Modulator (P/N 136C3426) (1pc)



TOOLS REQUIRED:

#2 Phillips Screwdriver
#1 Phillips Screwdriver
Utility or Razor Knife or Shears
Wire Strippers
Upholstery hook tool (for removal of panels as necessary)
Electrical Tape
Masking Tape
Multimeter (to verify 12 volt DC and continuity: Do not use a test light or logic probe)
Marker pen – to mark headliner
Scribe (to mark trim ring if used)
Misc. electrical connectors (to connect to vehicle power source). Requirements will vary from vehicle to vehicle)
DVD Movie (to verify system operation after installation)

GENERAL INSTALLATION APPROACH:

1) Decide upon system configuration and options that will be installed (i.e.: what components, VCP, Video Game, external amp, wireless headphones, VCP, etc.).
2) Review all manuals to become familiar with electrical requirements and hook ups.
3) Decide upon mounting locations of all components and method of mounting.
4) Prep the vehicle by removing any interior trim necessary to gain access to vehicle's wiring as well as all areas where interconnecting wire harnesses will need to be located. If any access holes need to be cut into the vehicle (headliner, other trim components etc.), this should be done now as well. (Refer to Page 3).
5) Route the wiring harnesses throughout the vehicle as necessary. (Refer to the Wiring Diagrams on pages 6 and 7 of this manual as well as the wiring instructions for the individual components and accessory options being installed). Be sure that all wiring is protected from sharp edges and is routed in such a manner that it will not be pinched when all components and interior trim are fully installed. Be sure to leave enough slack in the wiring at each component to allow working room.
6) Remove all A/V system components from their packaging and place them loosely in the vehicle at their respective locations.
7) Connect all components together (electrically) and verify proper operation of all system functions. Note: This is best done BEFORE, components have been permanently mounted.
8) After verifying proper operation of the system, proceed to mount of each component.
9) When all components are mounted, recheck function of entire system again to ensure that no wiring was pinched or connected improperly during final installation.

GENERAL SYSTEM CONFIGURATIONS:

The following is intended to provide some of the system configurations that are possible with the VOD701 and VOD702 series Drop Down Video Systems:

System 1: Video Monitor without TV tuner (VOD701), with DVD and FM modulator.
-All wiring necessary is included with this package.
-Headphones are connected into the headphone jacks on the monitor itself (Sold separately)

System 2: Video Monitor with TV tuner (VOD702), with DVD and FM modulator (Sold separately).

Notes :

There are a few audio output options that can be added as follows:

a) Wired headphone jacks can be added to a VOD701/VOD702 system. Refer to the wiring diagram on page 6/7.
b) Additional speakers can be added to a VOD701 and VOD702 system using the speaker outputs. Refer to the wiring diagram on page 6/7.
c) Wireless Headphones (P/N IR2CHS).

The VOD701 and VOD702 video systems are only intended for an overhead, drop down installation. It is not intended for Seatback or any other type of mounting. The hinging mechanism is designed for horizontal, drop down use only.

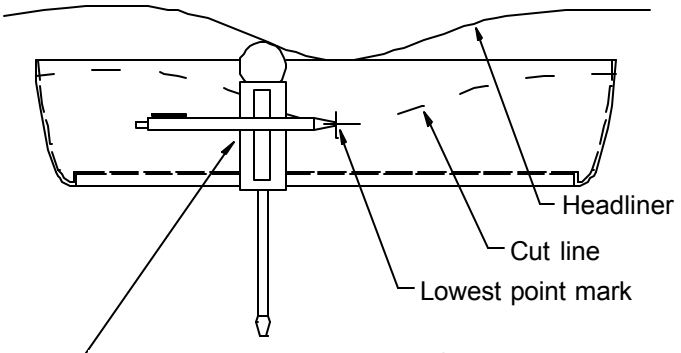
VEHICLE PREPARATION:

1) Locate a constant power source (+12v at all times), an accessory power source (+12v when key is in the ACC. and run positions, and 0v when key is off), and also a good ground generally, these wires can be found at the ignition switch or fuse-box.
2) The mounting method and location will vary from vehicle to vehicle, so this manual will only focus on the installation of the video monitor and related console accessories.
3) Generally, the best location for the video monitor is where the vehicle's factory dome light is installed. The monitor should be located in such a manner that it can be comfortably viewed by rear seat passengers. NEVER INSTALL THE MONITOR IN A PLACE WITHIN THE DRIVER'S VIEW. THIS IS NOT ONLY DANGEROUS, BUT IT IS ALSO ILLEGAL IN MANY STATES.
4) Once the mounting location of the monitor has been determined, there may be additional preparation work necessary, depending on the vehicle structure and installation method. Some of the steps that may be required are:
    A) Removal of the vehicle's dome light
    B) The headliner may.
    C) If the mini-console (P/N 102C3916) will be used, it will have to be trimmed to fit the contour of the vehicle's headliner. Refer to the "Mini-Console installation" section in this manual.

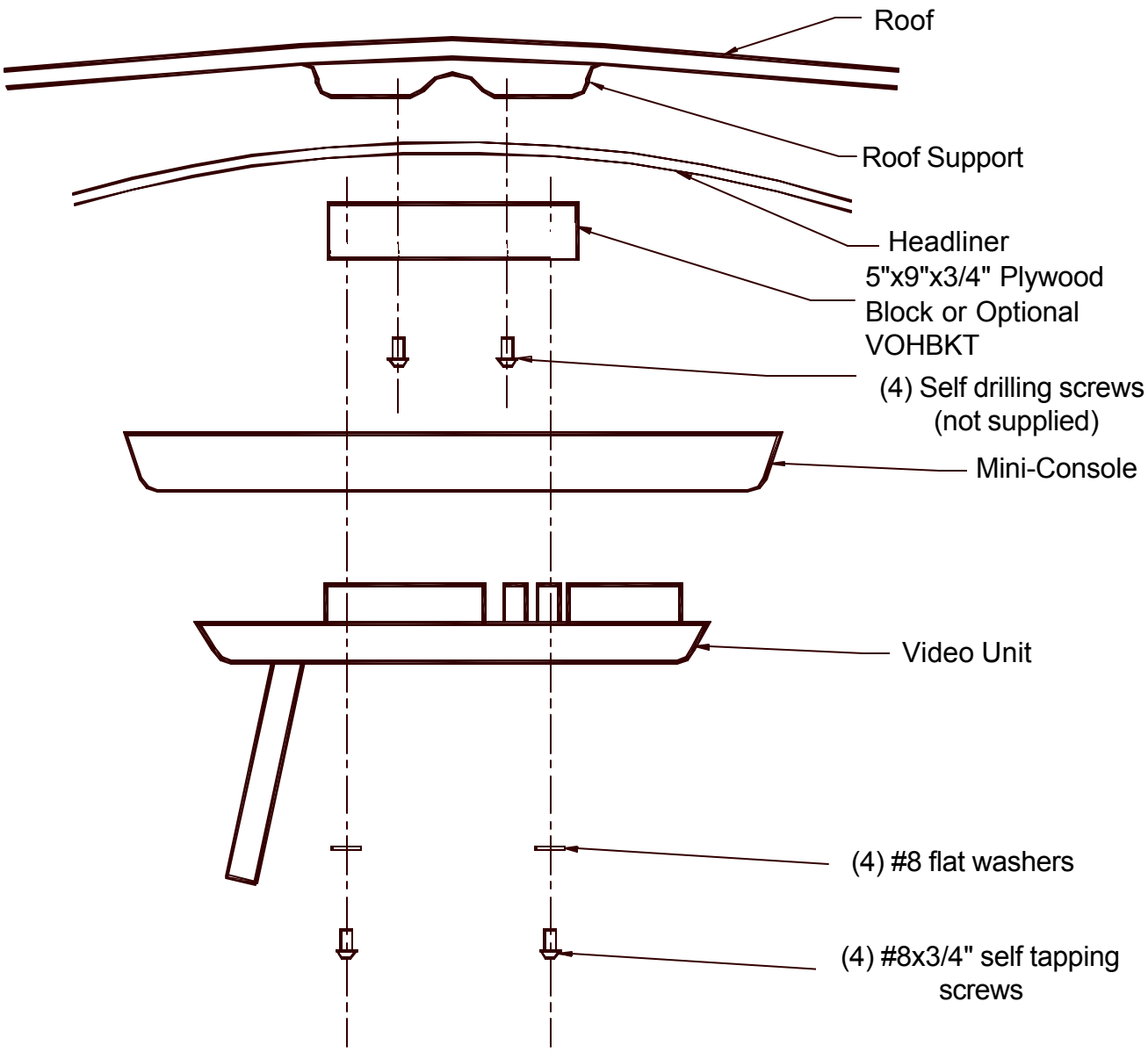
MINI CONSOLE INSTALLATION:

This page only covers special installation considerations for the mini-console installation. If the video monitor is to be installed in a vehicle with the mini console (P/N 102C3916), this console may need to be trimmed to fit the contour of the vehicle headliner.

1) In this installation, the video monitor is mounted directly to the overhead cross-member in the roof using the mounting screw bosses. These screw bosses should contact the cross-member directly (i.e.: no gap between the screw boss and the roof structure). Also, be sure that the screws do not pierce the outer roof skin when fully fastened to the cross-member. The mini-console is attached to the video monitor using the perimeter screw bosses. It is important that the screws used in this installation are not overtightened, and that the video monitor and mini-console are mounted in such a way that the assembly does not distort (or bend) when the mounting screws are tightened. An alternate method is to use a piece of plywood (5"x9"x3/4"). First secure the plywood block to the cross-member, then screw the monitor into the plywood. See the drawing on page 5.
2) It is best to mount the video monitor to the roof structure without the mini-console first. There should be a gap between the headliner and the outer flange of the video monitor. The mini-console should be cut to full this gap. Apply masking tape to the outer surface of the mini-console in the areas where the cut will be made.
3) Mark the cut to follow the necessary contour of the roof. The suggested method of marking is as follows:
    - A) First mark the narrowest point of the mini-console on the masking tape. Be careful to consider not only vertical location, but fore-aft location.
    - B) Using the handle of a screwdriver, make a “transfer marking tool”. See diagram below. Place the tool against the roof and the marker against the masking tape on the mini-console. Trace the cut to be made around the entire perimeter of the mini-console.
    - C) Cut the mini-console using a sharp utility knife or shears. Make the cut in several passes over the marked line, each time cutting a little deeper. It is not necessary to cut completely through the plastic, the cut only need be over 50% of the wall thickness of the plastic. By bending the cut back and forth several times, the plastic will break cleanly at the cut.
    - D) Check the fit of the trimmed console and make any minor adjustments necessary.
4) The mini-console can be painted or covered with a material that matches the headliner before assembling the mini-console to video monitor.
5) The finished mini-console should be attached to the video monitor, then attach the assembly to the roof.


Headliner
Cut line
Lowest point mark
Tape marker to screwdriver. Starting at your mark for the lowest point, trace the contour of the roof

MOUNTING THE MINI-CONSOLE



VOD701

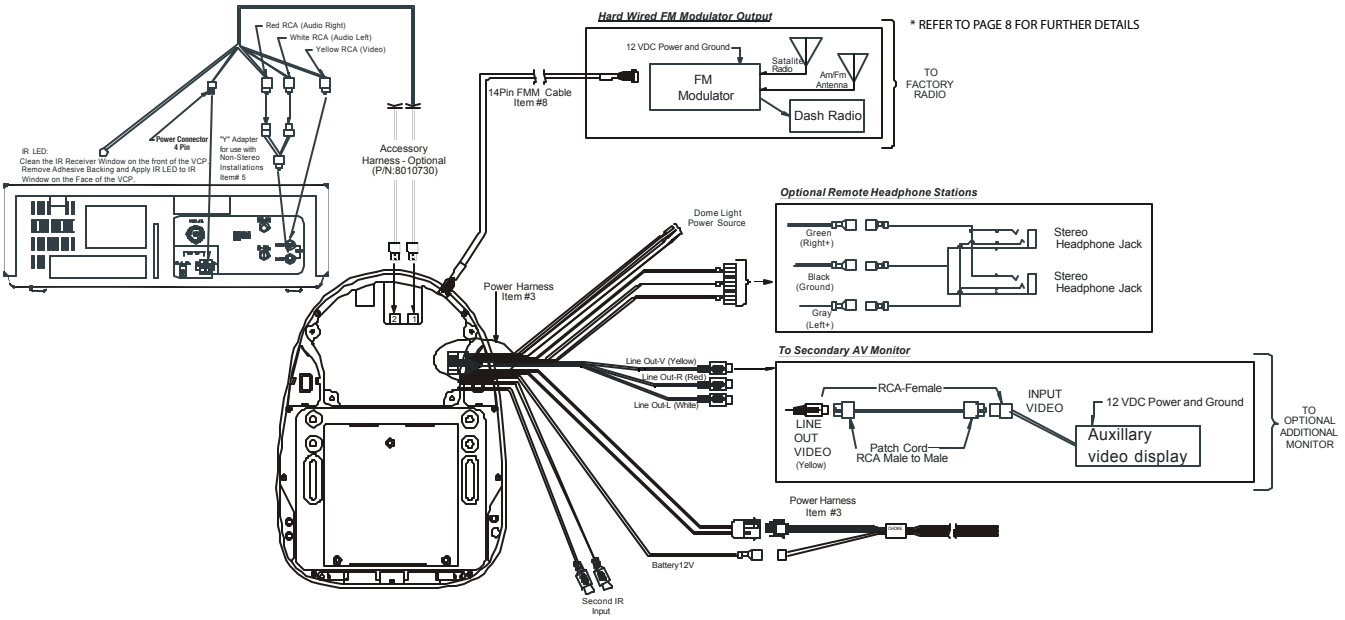

Red RCA (Audio Right)
White RCA (Audio Left)
Yellow RCA (Video)
Power Connector 4 Pin
"Y" Adapter for use with Non-Stereo Installations Item# 5
IR LED:
Clean the IR Receiver Window on the front of the VCP. Remove Adhesive Backing and Apply IR LED to IR Window on the Face of the VCP.
Accessory Harness - Optional (P/N:8010730)
Hard Wired FM Modulator Output
12 VDC Power and Ground
Satalite Radio
Am/Fm Antenna
FM Modulator
Dash Radio
* REFER TO PAGE 8 FOR FURTHER DETAILS
TO FACTORY RADIO
14Pin FMM Cable Item #8
Dome Light Power Source
Power Harness Item #3
Optional Remote Headphone Stations
Green (Right+)
Black (Ground)
Gray (Left+)
Stereo Headphone Jack
Stereo Headphone Jack
To Secondary AV Monitor
Line Out-V (Yellow)
Line Out-R (Red)
Line Out-L (White)
RCA-Female
INPUT VIDEO
12 VDC Power and Ground
LINE OUT VIDEO (Yellow)
Patch Cord RCA Male to Male
Auxillary video display
TO OPTIONAL ADDITIONAL MONITOR
Power Harness Item #3
Battery12V
Second IR Input

Figure A

1) Make the connections to the vehicle for the 12 pin wiring harness and battery wire.
2) Open the cover to gain access to Mini-Din Connector on main PCB.
3) Insert the Circular Mini-Din Connector of the source component harness through the wire tie loop on the main PCB and into the Mini-Din Connector on the main PCB.
4) Pull the wire tie loop tight and cut off the excess.
5) Connect the 12 pin harness to the mating connector on the Video Monitor.
6) Connect the wired headphone to the remote headphone jacks to the video monitor if those options are being included.
7) Connect the 14 Pin wire to the FM modulator.
8) Connect power harness to vehicle's electrical system by tapping into an accessory hot line.
9) Verify all functions of the System before final mounting of the finished assembly.

Note: A VCP or other A/V Component can be connected to the video monitor system using a second source component harness (purchased separately, part number: 8010730). This second harness would plug into the second Mini-Din connector on the main PCB as in steps 2 and 3 above.

A/V Source Definitions:

1= VCP or VCP with TV Tuner (Right Mini-Din on main PCB)
2= 2nd VCP (or game or DVD, etc..... left Mini-Din)
3= AUX-IN (VCP, Game or future DVD etc...)
4= Built-in DVD

VOD702

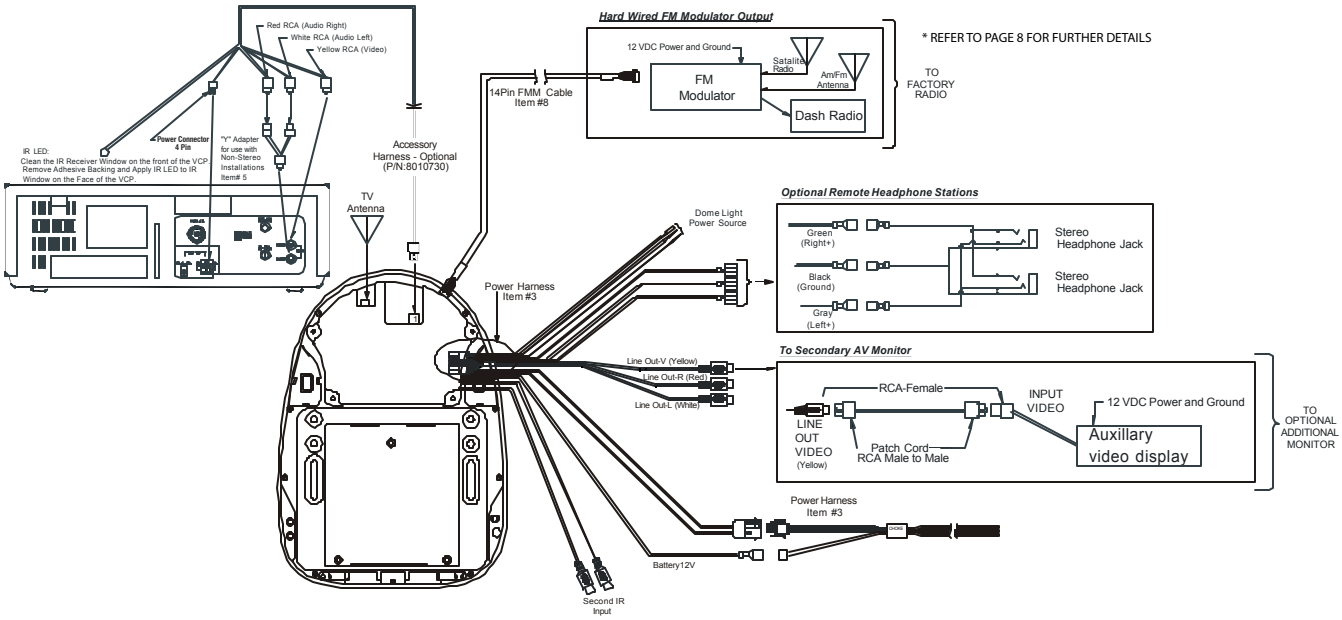

Red RCA (Audio Right)
White RCA (Audio Left)
Yellow RCA (Video)
IR LED:
Clean the IR Receiver Window on the front of the VCP
Remove Adhesive Backing and Apply IR LED to IR Window on the Face of the VCP.
Power Connector 4 Pin
"Y" Adapter for use with Non-Stereo Installations Item# 5
Accessory Harness - Optional (P/N:8010730)
TV Antenna
Hard Wired FM Modulator Output
12 VDC Power and Ground
Satalite Radio
Am/Fm Antenna
FM Modulator
Dash Radio
* REFER TO PAGE 8 FOR FURTHER DETAILS
TO FACTORY RADIO
14Pin FMM Cable Item #8
Dome Light Power Source
Power Harness Item #3
Optional Remote Headphone Stations
Green (Right+)
Black (Ground)
Gray (Left+)
Stereo Headphone Jack
Stereo Headphone Jack
To Secondary AV Monitor
Line Out-V (Yellow)
Line Out-R (Red)
Line Out-L (White)
RCA-Female
INPUT VIDEO
12 VDC Power and Ground
LINE OUT VIDEO (Yellow)
Patch Cord RCA Male to Male
Auxillary video display
TO OPTIONAL ADDITIONAL MONITOR
Power Harness Item #3
Battery12V
Second IR Input

Figure B

1) Make the connections to the vehicle for the 12 pin wiring harness and battery wire.
2) Open the cover to gain access to Mini-Din Connector on main PCB.
3) Insert the Circular Mini-Din Connector of the source component harness through the wire tie loop on the main PCB and into the Mini-Din Connector on the main PCB.
4) Pull the wire tie loop tight and cut off the excess.
5) Connect the 12 pin harness to the mating connector on the Video Monitor.
6) Connect the wired headphone to the remote headphone jacks to the video monitor if those options are being included.
7) Connect the 14 Pin wire to the FM modulator.
8) Connect power harness to vehicle's electrical system by tapping into an accessory hot line.
9) Mount and connect the Television antenna.
10) Verify all functions of the System before final mounting of the finished assembly.

Note: A VCP or other A/V Component can be connected to the video monitor system using a second source component harness (purchased separately, part number: 8010730). This second harness would plug into the second Mini-Din connector on the main PCB as in steps 2 and 3 above.

A/V Source Definitions:

1= TV Tuner
2= VCP (Mini-Din on main PCB)
3= AUX-IN (game or future DVD, etc...)
4= Built-in DVD

VOD701/VOD702 INSTALLATION INSTRUCTIONS WHEN USING SATELLITE RADIO

The VOD701/702 pods have dual IR transmitters. Channel A handles normal audio program material from A/V sources (DVD/AUX/TV, etc). The second B channel allows an external audio source such as Satellite Radio or a CD changer to be used through RCA input jacks. There are a variety of ways to wire this package as outlined below.

Using an Audiovox SIRIUS satellite receiver

1) The modulator that is supplied with this package is model # FTR300. The modulator has two antenna inputs, one for the vehicle antenna and the other for a satellite radio RF input (the Sirius FM modulator is built in to the receiver).
2) This input allows the Sirius RF signal to switch the modulator on and off without any user intervention with the overhead pod. (Note: A 5 volt signal rides on the RF signal from the Sirius receiver and automatically switches out the vehicle antenna when the Sirius radio is turned on)
3) Plug the Sirius antenna lead into the RF input marked “SAT” (FTR300). Run a stereo RCA cable from the RCA output of the Sirius receiver to the IR2 RCA inputs on the overhead pod.
4) If the rear seat occupant(s) want to listen to Sirius on channel B and not on the vehicle radio, the Sirius modulator output can be shut off using the Sirius commander. Check the Sirius owner’s manual for the proper procedure. When the Sirius modulator is shut off, Sirius audio can still be switched to the POD modulator (FTR300) using the POD remote control.

Using an Audiovox XM satellite receiver

1) The Audiovox XM-01 satellite receiver does not operate the same as the Sirius, the FM modulator is external to the XM receiver.
2) In this case the external FM modulator from the XM receiver will need to be placed between the vehicle radio and the FTR-300 modulator. This configuration may cause slight deterioration of signal from the vehicle antenna due to insertion loss of the two modualtors being in series. (Note: The SAT input on the modulator is not used for this configuration.)
3) Run a stereo RCA cable from the RCA output of the XM receiver to the IR2 RCA inputs on the overhead pod.
4) If the rear seat occupant(s) want to listen to XM on channel B and not on the vehicle radio, the XM modulator output can be shut off using the XM commander. Check the XM owner’s manual for the proper procedure. When the XM modulator is shut off, XM audio can still be switched to the POD modulator (FTR300) using the POD remote control

CONNECTING THE DOME LIGHTS

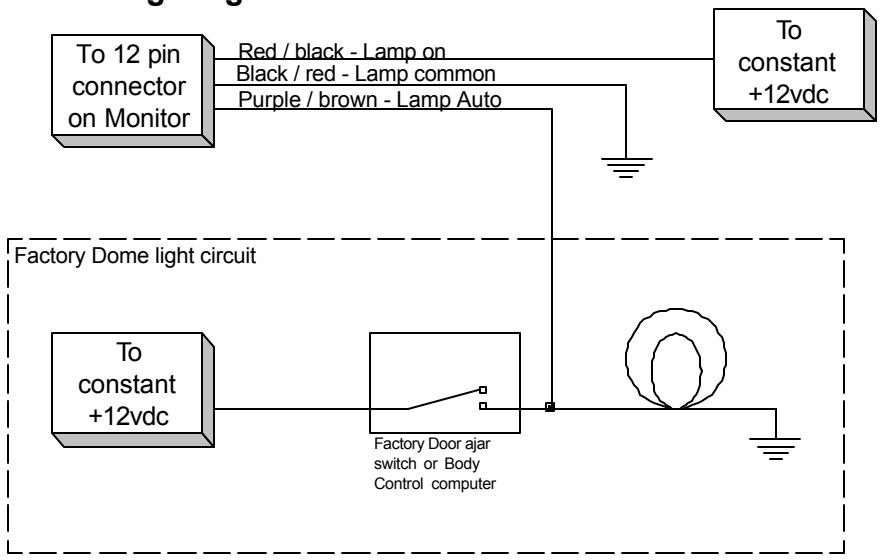
The dome lights in the video monitor require three connections to the vehicle's wiring. There are two common types of dome light circuits used, positive or negative switched. Positive systems supply voltage to the interior lights to turn them on, negative switched systems apply ground to illuminate the bulbs. To determine which system you have you must locate the wires at the dome light. On a positive switched system, with all the doors closed and the lights out, both wires at the dome light will rest at ground. When the light is activated, one of these wires will switch to +12 vdc. This is the vehicle's switching wire. On a negative switched system, with all the doors closed and the lights out, both wires at the dome light will rest at + 12vdc. When the light is activated, one of these wires will switch to ground. This is the switching wire.

For positive systems, connect the purple / brown (Lamp auto) wire to the vehicle's switched wire. Then connect the red / black (lamp on) wire to a fused constant 12 volt source and the black / red (lamp common) wire to a good ground. Positive systems are commonly found on Ford vehicles.

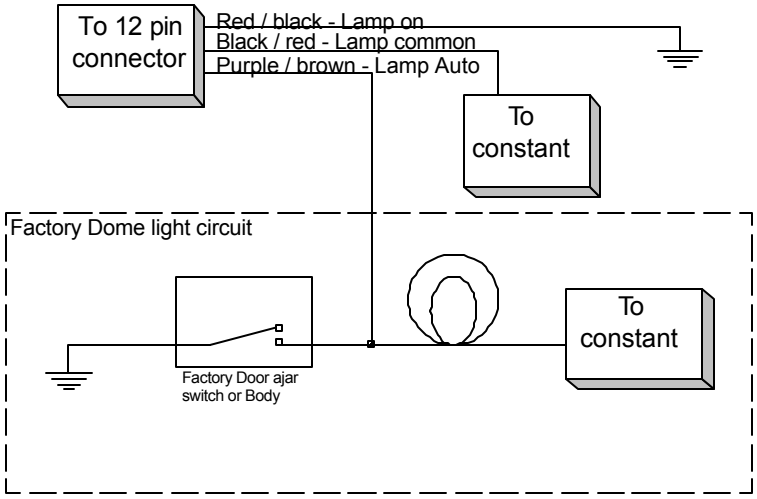
For negative systems, connect the purple / brown (Lamp auto) wire to the vehicle's switched wire. Then connect the red / black (lamp on) wire to a good ground and the black / red (lamp common) wire to fused constant 12 volt source. Negative systems are commonly found on General Motors and import vehicles.

Note:
Some vehicles which incorporate transistorized control of the dome light circuit, such as the 1999 Dodge Caravan, may require that the purple / brown (Lamp auto) wire be connected to the door pin switch wire, as the additional current draw of the Monitor's lights may not be supported by the output of the vehicles body control computer.

Positive Switched Dome lighting


To 12 pin connector on Monitor
Red / black - Lamp on
Black / red - Lamp common
Purple / brown - Lamp Auto
To constant +12vdc
Factory Dome light circuit
To constant +12vdc
Factory Door ajar switch or Body Control computer

Negative Switched Dome lighting


To 12 pin connector
Red / black - Lamp on
Black / red - Lamp common
Purple / brown - Lamp Auto
To constant
Factory Dome light circuit
To constant
Factory Door ajar switch or Body

Troubleshooting:

SYMPTOM:	***REMEDY:***
No power at Video Monitor	-Verify +12 VDC on Red wire at 2 pin Power Harness behind video monitor. Verify ground connection with continuity test from known good ground to black wire at 2 pin Power Harness
Power but no video or sound	-Verify that the correct source is selected (i.e.: 1,2,3 or 4). Verify that the source is on and playing a known good media (such as a videotape). Verify connections at both ends of the source component harness.
Picture, but no sound	-Push and hold the volume up button until sound is heard over headphones. If problem is limited to the dash radio, verify radio is tuned to the correct channel, and that power to the wired RF modulator is on. (Refer to instructions with modulator kit). Otherwise, verify all connections per the wiring diagram on pages 6 and 7.
Static on TV Stations (Tuner Version Only)	-Press Auto Program button. Then press CH up or CH down. Verify antenna mounting and connections to the tuner. Note: Due to the nature of TV signals, vehicle motion, direction the vehicle is facing, distance from the transmitter, nearby surroundings and weather may adversely affect TV reception. These conditions may result in the following: picture roll, "snowy" picture, or momentary loss of color.
No Infrared remote functions for VCP (or other components)	-Check batteries in the hand held remote (not included with this kit). Verify that the IR LED (page 6 or page 7 Wiring Diagram) is properly attached to the sensor window of the VCP (or other component).

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Product Information, Photos,
FAQ's Owner's Manuals

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